

Appln. No. 10/030,596

Attorney Docket No. 10541-751

I. Listing of Claims

1. (Original) An optical media system comprising: an optical pickup for reading from and/or writing to an optical storage medium, the optical pickup having one or more sources of light, an objective lens, a focus and/or tracking actuator for moving the lens to focus and/or track the light on the optical medium and mechanical limits to limit the focus and/or tracking movement of the lens; and an actuator controller for controlling the actuator and hence the focus and/or tracking position of the lens, characterised in that the actuator controller actively controls the lens position when the optical pickup is not being used with the optical medium.

2. (Original) The optical media system as claimed in Claim 1, in which the optical pickup is moved to a park position away from the optical medium when not being used with such an optical medium.

3. (Original) The optical media system as claimed in Claim 2, in which the system includes a focus object at the park position so that the actuator controller can focus the light on the focus object when the optical pickup is not being used with the optical medium in order to hold the lens position within the mechanical limits.

4. (Original) The optical media system as claimed in Claim 3, in which the lens is adapted to focus light through an optical substrate in order to read and/or write to the optical medium, and the focus object includes a similar substrate.

-2-

BRINKS
HOFER
GILSON
& LIONE

BRINKS HOFER GILSON & LIONE
P.O. Box 10395
Chicago, IL 60610

Appln. No. 10/030,596

Attorney Docket No. 10541-751

5. (Original) The optical media system as claimed in Claim 3, in which the actuator controls the lens position when the optical pickup is not being used with the optical medium so that the focus of light on the focus object is defocused in order to reduce the illuminance on the focus object.

6. (Original) The optical media system as claimed in Claim 3, in which the light is pulsed on the focus object.

7. (Original) The optical media system as claimed in Claim 3, in which the focus object contains thermally conductive material for dissipating heat absorbed from the focus light.

8. (Original) The optical media system as claimed in Claim 7, in which the focus object includes a reflective layer on which the focus actuator focuses, the thermally conductive material being a thickness of the reflective layer significantly beyond that needed for bulk reflectivity.

9. (Withdrawn) The optical media system as claimed in Claim 1, in which the actuator is a voice coil actuator, the actuator controller being connected to the voice coil actuator and including circuitry that detects a voltage or a current generated by externally induced movement of the voice coil when the optical pickup

-3-



BRINKS HOFER GILSON & LIONE
P.O. Box 10395
Chicago, IL 60610

Appln. No. 10/030,596

Attorney Docket No. 10541-751

is not being used with the optical medium in order to generate a compensating voltage or current in order to control the lens position.

10. (Withdrawn) The optical media system as claimed in Claim 1, in which the optical pickup has at least one end stop that defines a limit to the focus and/or tracking movement of the lens, and the actuator controller biases the lens towards an end stop when the optical pickup is not being used with the optical medium so that the lens position is held at the end stop.

11. (Withdrawn) The optical media system as claimed in Claim 1, in which the optical pickup has a pair of end stops that define a limit to the focus and/or tracking movement of the lens, and the actuator controller controls the lens position to a median position between the end stops.

12. (Original) The optical media system as claimed in Claim 1, wherein the optical media system is mounted in a vehicle and wherein the actuator controller actively controls the focus and/or tracking position of the lens when the vehicle is moving.

-4-



BRINKS HOFER GILSON & LIONE
P.O. Box 10395
Chicago, IL 60610